CodeMark

Certificate no: CMNZ30044
Version: K
Original issue date: 13 November 2013
Version date: 19 March 2025
Renewal Date: 10 November 2026

1. Certificate Holder Details

LOCKWOOD

Lockwood Group Limited,
7 Russell Road, Fairy Springs, Rotorua, New Zealand
Email: Technical@lockwood.co.nz
Tel: + 64 (0)508 562 596
Web: www.lockwood.co.nz

2. Product Certification Body

Global-Mark Pty Ltd
Trading as Global-Mark
57 Willis Street, Wellington, 6011
customer.service@global-mark.co.nz
+64 9 889 0622
www.global-mark.co.nz

Complaints: The complaints process for this certificate can be found here:
www.global-mark.co.nz/complaints

Global-Mark Managing Director.

Herve Michoux

global-mark

Product Certificate

Lockwood Wall System

3. Description of Building Method or Product

This Certificate relates to three Lockwood wall systems:

- The Lockwood 44 wall system consists of treated solid Pinus Radiata timber board, and is 44 mm thick
- The Lockwood 62 wall system consists of treated solid laminated Pinus Radiata timber boards, and is 62 mm thick
- The Lockwood 107 wall system consists of two layers of treated solid laminated Pinus Radiata timber board held apart by two structural plywood spreaders with a centre core of *Polyisocyanurate (PIR)*insulation, and is 107 mm thick

The boards have an effective cover of 172 mm and interlock to form a solid wall. All Lockwood Wall Systems incorporate vertical interlocking wall componentry, tie rods, subfloor base flashings, wall stiffeners, prefabricated corner connections, nailing beams, ridge beams and posts, as well as other ancillary items.

Lockwood 62 and Lockwood 107 are manufactured with a prefinished external outer face. The outer face finishes are available in powder coated aluminium, cedar and laminated Pinus Radiata. External walls incorporate aluminium joinery and all associated joinery flashings and wedges.

The Lockwood 107 wall system has a R value of 2.10 m^2K/W.

4. Intended use of Building Method or Product

1. Lockwood Wall Systems are external and internal wall systems. The Lockwood 44 wall system is typically used for internal walls, the Lockwood 62 and 107 wall systems are intended for internal and external wall applications. In some situations, the Lockwood 44 wall system walls are extended through to the external envelope or form a part of the exterior envelope.
2. All Lockwood Wall Systems can be used for structural or non-structural applications.

5. New Zealand Building Code Provisions

The System if designed, used, installed and maintained in accordance with the conditions of this Certificate will comply with or contribute to compliance with the following performance provisions of the NZ Building Code:

Clause B1 STRUCTURE:	Performance B1.3.1, B1.3.2, B1.3.4 for the relevant physical conditions of B1.3.3 (a), (b), (f), (h), (j) and (q).

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Clause B2 DURABILITY:	Performance B2.3.1(a) 50 years and B2.3.2.
Clause C3: FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	Performance C3.4(a)
Clause E2 EXTERNAL MOISTURE:	Performance E2.3.2, E2.3.3, E2.3.6 and E2.3.7
Clause E3 INTERNAL MOISTURE:	Performance E3.3.1, E3.3.4, E3.3.5, E3.3.6
Clause F2 HAZARDOUS BUILDING MATERIALS:	Performance F2.3.1
Clause H1 ENERGY EFFICIENCY:	Performance H1.3.1 (a) and (b), H1.3.2E (107 mm board only)

6. Conditions and Limitations of Use

1. The Lockwood wall systems are certified for use in buildings:
    a. within the scope limitations of NZS 3604:2011, Paragraph 1.1.2.
    b. situated in NZS 3604:2011 Wind Zones up to, and including, Extra High (55 m/s ultimate limit state wind speed) calculated in accordance with AS/NZS 1170.2:2011 (R2016) including amendment 1 to 5.
    c. located in all exposure zones described in NZS 3604:2011, Section 4.2, provided that the tie rods, fasteners and fixings used are selected for the exposure condition in accordance with the document Standard Specification for Lockwood Components (Issue No 17, 14.09.2023)
    d. more than 1 m from a relevant boundary, and
    e. In areas of buildings where a Material Group number of 3 or greater is required subject to being coated with Waterborne or solvent borne paint coatings, varnish or stain ≤ 0.4 mm thick ≤100 g/m2
2. Lockwood wall systems shall be designed, installed and maintained in accordance with the following set of documentation collectively reference as the applicable technical documentation:
    a. the Lockwood Detail Manual June 2024,
    b. the Lockwood Structural Handbook March 2015 (Issue 2, Version 4, 3/03/2015)
    c. the Standard Specification for Lockwood Components (Issue No 17 14.09.2023).
    d. the Lockwood Maintenance Schedule (Version 2, September 2018)
    e. the Lockwood Assembly Manual (Version 8, 2024)
3. Compliance of the building as a whole with H1.3.1(a) shall be determined by the schedule method of H1/AS1 or H1/AS2 as applicable or if parts of the thermal envelope are formed by 44 or 62 wall systems, the calculation method.
4. The 44 mm solid timber board contribution to Clause E2 is only in the limited situations where the walls are extended through to the external envelope or form a selected part of the exterior envelope. In these situations, the wall must be packed, insulated and clad in accordance with the Lockwood Detail Manual June 2024.).

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5. All construction of Lockwood Design buildings shall be carried out and/or supervised by a Lockwood trained Licensed Building Practitioner.
6. The designer shall provide a signed Declaration for submission with the building consent application that the use of this product in the proposed building work falls within the scope of this certificate and that all design conditions of this certificate have been met.
7. The installer shall supply a signed Declaration that the product has been installed in accordance with the installation conditions of this certificate, for consideration for issuing a Code Compliance Certificate (CCC).

7. Health and Safety Information

Standard industry safety practices and manufacturer safety requirements as detailed in the technical literature including the applicable SDS must be observed at all times.

8. Basis for Certification

The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)

Code Clause	Compliance pathway	Evidence
B1 STRUCTURE:	Verification method using B1/VM1	02, 04, 06, 07, 09, 10 13, 14
B2 DURABILITY:	Verification method using B2/VM1	01, 02, 03, 05, 08, 12, 13, 14
C3: FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	Acceptable solution using C/AS2	14
E2 EXTERNAL MOISTURE:	Alternative solution based on proven in service performance and comparison with E2/AS1	02, 05,13, 14
E3 INTERNAL MOISTURE:	Acceptable solution using E3/AS1 and alternative solution for E3.3.4 to E3.3.6	01, 11
F2 HAZARDOUS BUILDING MATERIALS:	Alternative solution based on performance clause of F2.3.1	14
H1 ENERGY EFFICIENCY:	Acceptable Solution based on H1/AS1 and H1/AS2 using NZS 4214:2006	01, 11

9. Supporting Documentation for Certification

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Ref	Author	Description	Date and/or Revision
01	CNZ INSULATION	CNZ Insulation Board Technical Specifications and Profiles BOARD – Technical Specifications and Profiles	2021
02	Lockwood Group Ltd	Lockwood Detail Manual	June 2024
03	Lockwood Group Ltd	Lockwood Product Warranty	Version 3, October 2018
04	Lockwood Group Ltd	Boundary joist and tie rod fixing	8/5/2018
05	The Building Business Ltd	Compliance with E2 (external moisture)	17 August 2013
06	Holmes Consulting	Lockwood Wall Bracing Capacity Design (Report 109800.00.00)	V1.2, 3/10/13
07	Lockwood Group Ltd	Structural Handbook	Issue 2, Version 4 3/03/2015
08	Lockwood Group Ltd	Lockwood Builders Declaration	Version 6, November 2022
09	Law Sue Davison Ltd	Producer Statement Design for Tierod fixing over sarking	20th May 2018
10	Law Sue Davison Ltd	Producer Statement Design for Tierod nog at boundary joist	20th April 2018
11	Lockwood Group Ltd	Further investigation of R value for the Lockwood 107 wall	May 2023
12	Lockwood Group Ltd	Maintenance Schedule	Version 2 September 2018
13	Lockwood Group Ltd	Lockwood Assembly Manual	Version 8, 2024
14	Lockwood Group Ltd	Standard Specification for Lockwood Components	Issue No 17 14.09.2023

10. Supporting Information About Description (Optional)

The following components are specific to the Lockwood Wall Systems:

- Factory fabricated wall boards (44, 62 and 107 mm in thickness)
- Tie rod full wall length with adjustable threads and a spring loaded top assembly
- Aluminium “X and V profile” custom wall connections

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- Aluminium bottom board locator (seating profile)
- Aluminium powder coated corner extrusion
- Stiffener posts
- µPVC base sealing profile
- Clip on powder coated aluminium exterior cladding facing
- Lockwood design aluminium joinery flashings and seals

11. Supporting Information About Intended Use (Optional)

Nil

12. Supporting Information About Conditions and Limitations of Use (Optional)

Nil

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. Please find the register here.

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.